



## **Outline of Presentation**

- Hawaii longline fleet
- Closure of the swordfish fishery
- Predicted social impacts
- Actual social impacts
- Policy implications and epilogue
  - Re-opening the fishery
  - Disaster relief fund



## Hawaii-Based Longline Fishery

- Tuna, swordfish, mixed trips
- Lands over 70% of Hawaii's commercial pelagic catch
- Limited entry capped at 164 permits (120 active)
- 1/3 vessels are owned by Vietnamese-Americans; swordfish niche

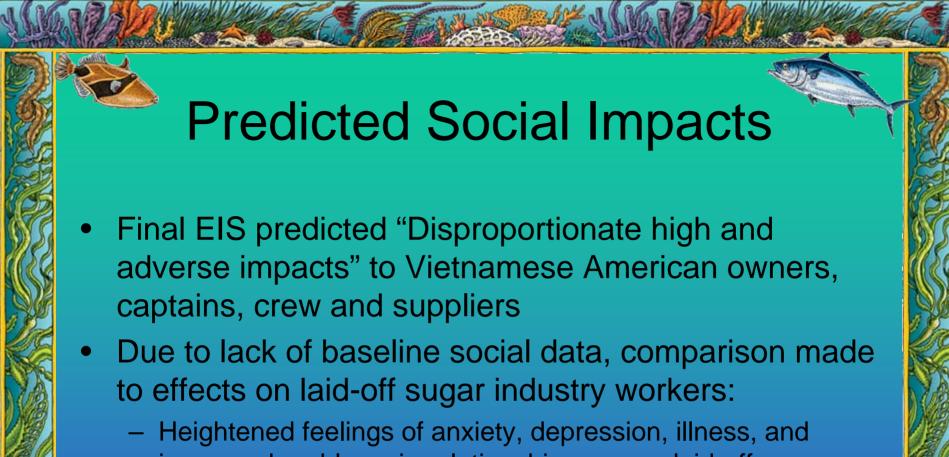




 Series of legal cases and court-ordered regulations based on bycatch of threatened and endangered sea turtles resulted in 2001 ban on swordfishing for Hawaii-based longline vessels







- Heightened feelings of anxiety, depression, illness, and increased problems in relationships among laid-off employees and family members
- Effects on owners could be mitigated by a permit or vessel buy-back program



- Broader study: semistructured interviews conducted in small groups or individually, over time
- Owners, captains, crew
- Quota sampling based on role in industry, pier, ethnicity, social network
- Interviewer and interpreter-community liaison were participant observers







22 owners (6 wives), 6 captains, 12 crew	
Average age	45
Average # years commercial fishing	17
Fished shrimp or longlined in Gulf	63%
Didn't finish high school	76%
Not fluent in English	84%
From fishing family	81%
Currently married	86%
Family dependent on longline	72%
Fishing is way to make money, not meet other needs	33%

SUSTAINABILITY - IT'S IN OUR HANDS

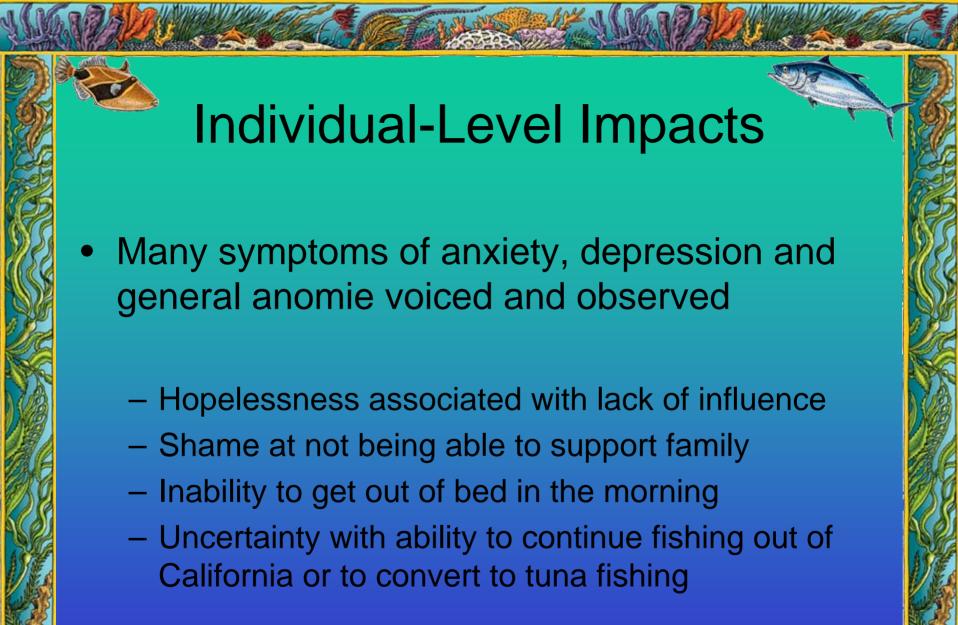


- 18+ vessels moved base to California where swordfishing still open (but then closed)
- Other half converted to tuna fishing with \$32,000 provided to each; learning curve
- Switch to Filipino crew





- "I was holding a bowl of rice and the government snatched it away."
- Two-boat owner: "From \$800,000-\$900,000 annually to \$300,000 after the ban."
- Captain: "Income on the last trip was no more than the crew's."
- Crew: "Before the ban, I made \$30,000 -\$40,000 a year, and now it is about half that."





- Even less time with family
- Disruption of normal patterns of behavior (wives to CA, getting/leaving jobs)
- Arguments and family stress
- Less money to visit or provide for extended family members
- Lack of money for children's highly valued education



- Decreased ability to lend money
- Lower levels of communication
- Fewer social events and celebrations
- Decrease in collective action
- Lower levels of cooperation at sea



- Initially fishermen work through the Hawaii Longline Association to fight the closure (2 cents/pound contribution)
- Disenchantment increases over time
- Resentment with HLA and its leaders
- Tuna fishermen foresee increased supply/competition and lower prices



- California swordfish closure in 2004
- Filipino crew costs and difficulties
- Bigeye tuna quotas
- Increasing fuel costs
- Continued pressure on longline industry





- Close-knit community of Vietnamese-Americans in Honolulu
- Attachment to fishing lifestyle and Hawaii
- Refugee experience
- Experience in other fisheries
- Other income potential in Honolulu





- Circle hooks, mackerel bait
- 100% observer coverage
- Hard limit on turtle interactions
- Sets limited to 2,120 per year
- Set certificates distributed among all interested longline permit holders



